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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/533,655

11/16/2005

Masanori Naritomi

052496

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38834

7590

12/26/2008

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EXAMINER

KRUER, KEVIN R

ART UNIT

PAPER NUMBER

1794

MAIL DATE

DELIVERY MODE

12/26/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/533,655	<b>Applicant(s)</b> NARITOMI ET AL.	
	<b>Examiner</b> KEVIN R. KRUER	<b>Art Unit</b> 1794	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 May 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. ____.                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>5/5/2005</u> .  | 6) <input type="checkbox"/> Other: ____.                          |

## **DETAILED ACTION**

### ***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Information Disclosure Statement***

2. The information disclosure statement filed 5/5/2005 has been fully considered. An initialed copy of said Ids is enclosed herein.

### ***Drawings***

3. The drawings filed 05/05/2005 are accepted.

### ***Specification***

4. The abstract of the disclosure is objected to because it is more than one paragraph. Correction is required. See MPEP § 608.01(b).

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kallenbach (US 5,212,214) in view of Scott (US 3,531,332).

.Kallenbach teaches a substrate coated with an arylene sulfide composition comprising ceramic micro-sphere filler (herein relied upon to read on the claimed powder filler) (abstract). The particles may comprise silica (col 9, lines 60+). The

Art Unit: 1794

substrate may comprise aluminum or aluminum alloys (col 9, lines 24+). Alternatively, it would have been obvious to utilize an aluminum-alloy rather than an aluminum substrate in order to improve the properties of the substrate layer.

Kallenbach does not teach the claimed pretreatment. However, Scott teaches a treatment process for aluminum and aluminum alloy substrates. Prior to treatment, the aluminum alloy is treated with an alkaline etching cleaner (col 5, lines 14+). The treatment comprises immersing the aluminum (col 5, lines 14+) in a solution of water and a substance selected from triethanolamine, diethylene triamine and hydrazine (col 1, lines 15+). Said treatment makes the aluminum substrate more susceptible to further coating treatments (col 2, lines 35+). Thus, it would have been obvious to the skilled artisan to pre-treat the aluminum alloy with the treatment taught in Scott in order to improve the adhesion between the substrate and the polyarylene sulfide coating.

7. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haak (US 20010036559) in view of Scott (US 3,531,332).

.Haak teaches a substrate coated with an arylene sulfide composition (0016) comprising long fibers (abstract). The fibers may comprise glass fibers (0016). The substrate may comprise aluminum or aluminum alloys (claim 6). Alternatively, it would have been obvious to utilize an aluminum-alloy rather than an aluminum substrate in order to improve the properties of the substrate layer. The laminate is made by injection molding (0020-0022).

Haak does not teach the claimed pretreatment. However, Scott teaches a treatment process for aluminum and aluminum alloy substrates. Prior to treatment, the

Art Unit: 1794

aluminum alloy is treated with an alkaline etching cleaner (col 5, lines 14+). The treatment comprises immersing the aluminum (col 5, lines 14+) in a solution of water and a substance selected from triethanolamine, diethylene triamine and hydrazine (col 1, lines 15+). Said treatment makes the aluminum substrate more susceptible to further coating treatments (col 2, lines 35+). Thus, it would have been obvious to the skilled artisan to pre-treat the aluminum alloy with the treatment taught in Scott in order to improve the adhesion between the substrate and the polyarylene sulphide coating.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN R. KRUEER whose telephone number is (571)272-1510. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1794

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin R Kruer/  
Primary Examiner, Art Unit 1794